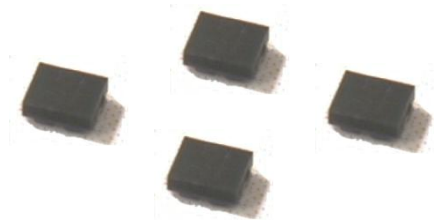
Data Sheet of SAW Components



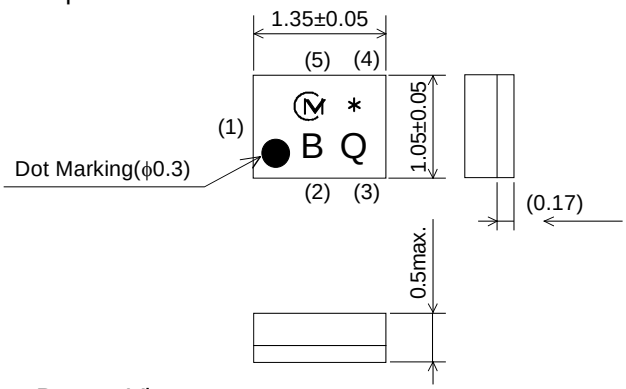
Note : Murata SAW Component is applicable for Cellular /Cordless phone (Terminal) relevant market only.
Please also read caution at the end of this document.

SAW FILTER FOR TD-SCDMA

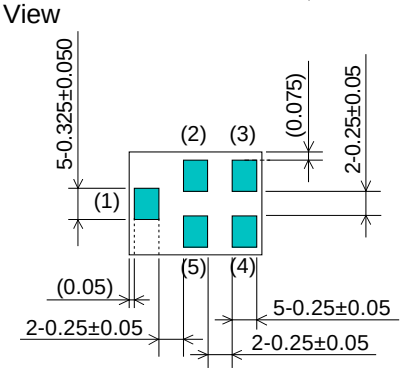
Murata part number : SAFEA1G90AA0F00

■ Package Dimensions

Top View



Bottom View



Marking
: Laser Printing

(1) : Unbalance Port
(4) : Unbalance Port
Others : Ground

Unit : mm

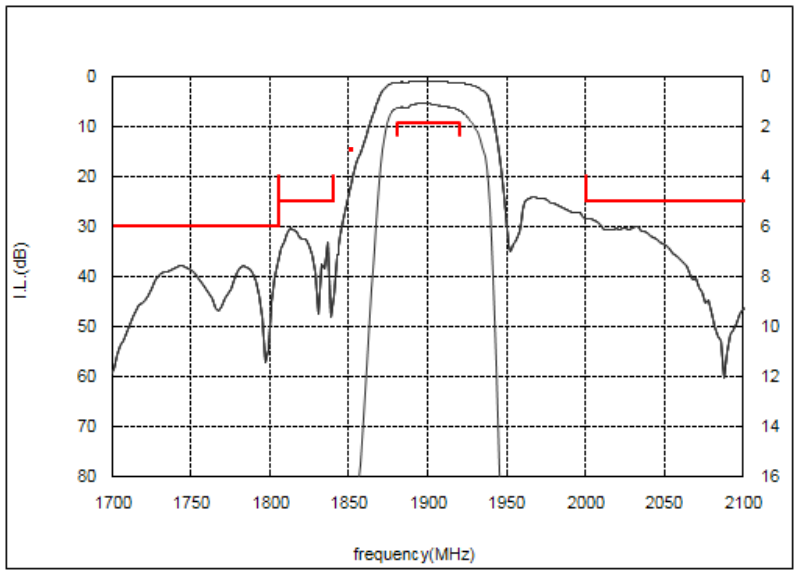
■ Specification

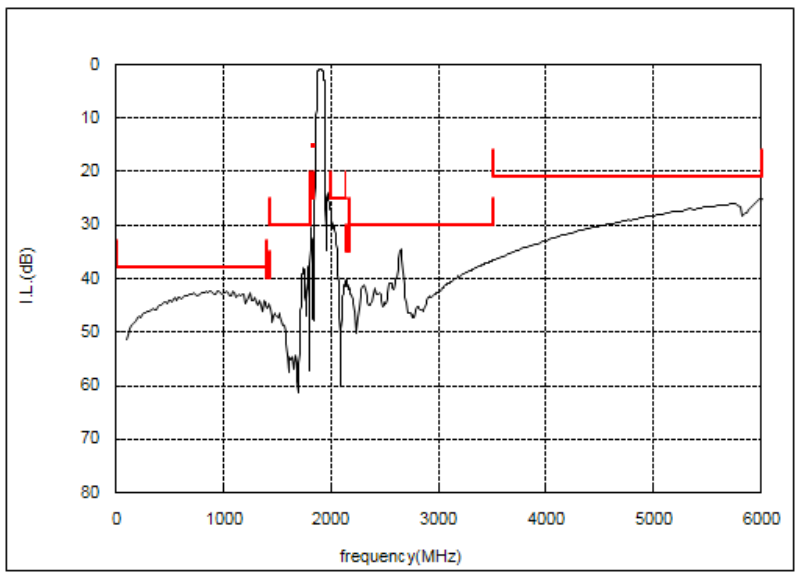
Item				Specification		
				-30 to 85°C	25±2°C	typ.
Nominal Center Frequency(fc)				1900MHz		
Insertion Loss (1880 to 1920MHz)				1.9 dB max.	1.7 dB max.	1.5 dB
Absolute Attenuation						
1)	0.1	to	1395 MHz	38 dB min.	38 dB min.	41 dB
2)	1395	to	1435 MHz	40 dB min.	40 dB min.	44 dB
3)	1435	to	1805 MHz	30 dB min.	30 dB min.	37 dB
4)	1805	to	1840 MHz	25 dB min.	25 dB min.	31 dB
5)		at	1850 MHz	15 dB min.	18 dB min.	23 dB
6)	2000	to	2135 MHz	25 dB min.	25 dB min.	28 dB
7)	2135	to	2175 MHz	35 dB min.	35 dB min.	40 dB
8)	2175	to	3500 MHz	30 dB min.	30 dB min.	34 dB
9)	3500	to	6000 MHz	21 dB min.	21 dB min.	25 dB
Ripple Deviation (1880 to 1920MHz)				0.8 dB max.	0.6 dB max.	0.4 dB
VSWR (1880 to 1920MHz)				1.9 max.	1.8 max.	1.3
Unbalance Port Matching Impedance (nominal)				50Ω		
Input Signal Level				20mW (+13dBm), 2000 hours		

SAW FILTER FOR TD-SCDMA

Murata part number : SAFEA1G90AA0F00

Frequency Performance

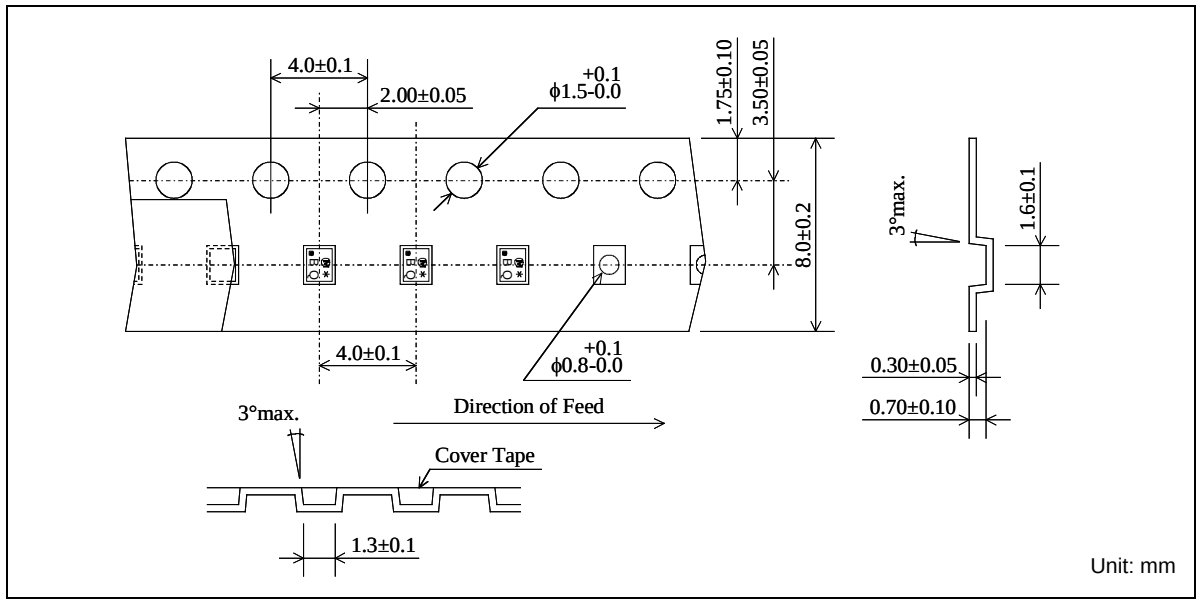




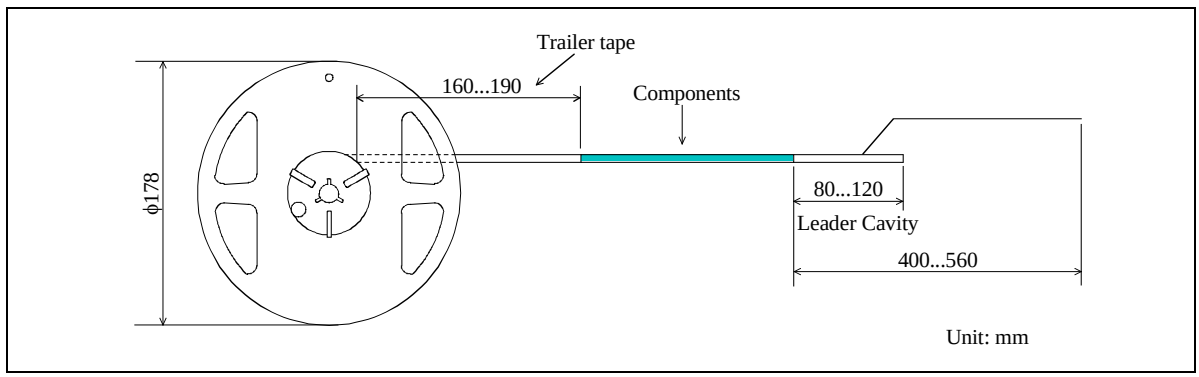
SAW FILTER FOR TD-SCDMA

Murata part number : SAFEA1G90AA0F00

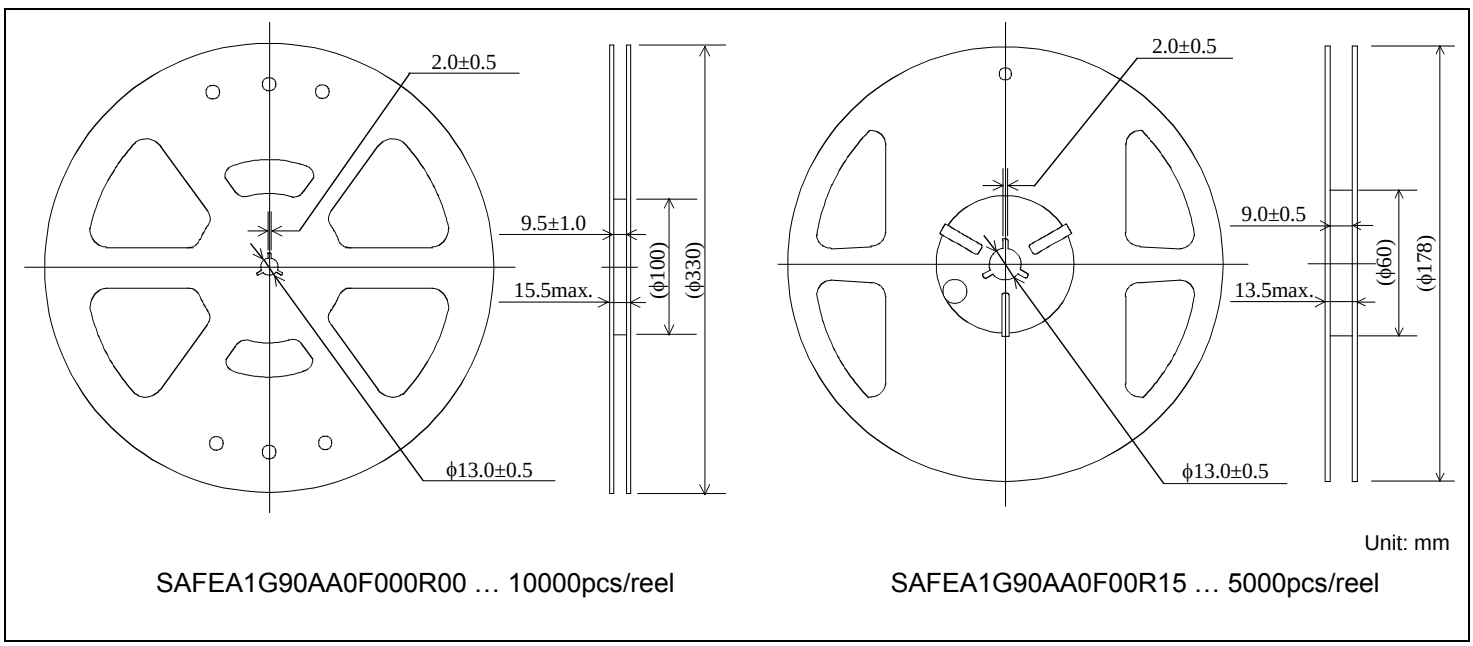
Dimensions of Carrier Tape



Dimensions of Tape



Dimensions of Reel



SAFEA1G90AA0F000R00 … 10000pcs/reel

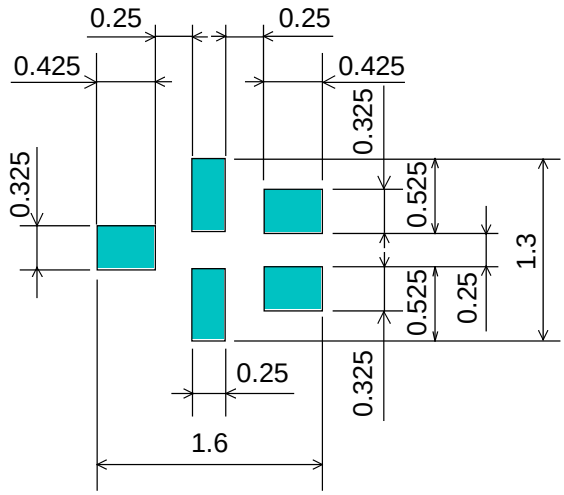
SAFEA1G90AA0F00R15 … 5000pcs/reel

SAW FILTER FOR TD-SCDMA

Murata part number : SAFEA1G90AA0F00

Recommended Land Pattern

Top View

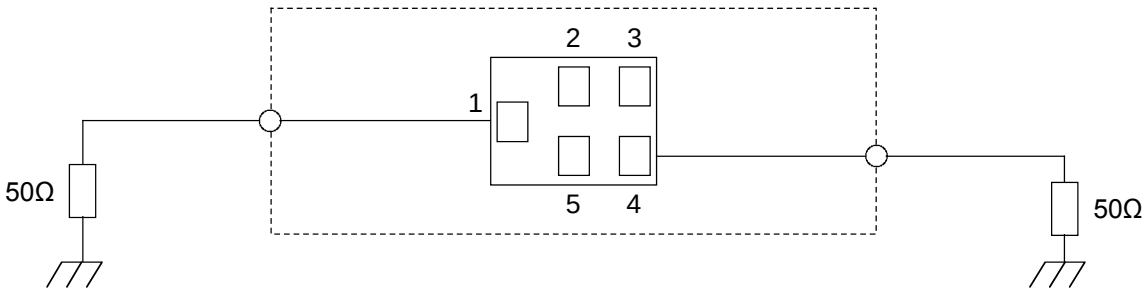


: Land Pattern

Unit : mm

Test Circuit

Bottom View



SAW FILTER FOR TD-SCDMA

Murata part number : SAFEA1G90AA0F00

■ RoHS Compliance

This component is compliant with RoHS directive.

This component was always RoHS compliant from the first date of manufacture.

・Caution - Limitation of Applications

This product is intended for the following applications only; however, please do not use this product in these applications where defects might directly cause damage to a third party's life, body or property.

a. Mobile Telephone
b. Cordless phone (except for Automotive use)
c. PC (Including Notebook PC, Netbook PC, Tablet)
d. Game
e. Camera (except for Business/security use)
f. Set Top Box
g. Electronic dictionary
h. Digital audio equipment

・This catalog is for reference only and not an official product specification document, therefore, please review and approve our official product specification before ordering this product.

SAW FILTER FOR TD-SCDMA

Murata part number : SAFEA1G90AA0F00

■Important notice

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Please make sure that your product has been evaluated and confirmed from the aspect of the fitness for the specifications of our product when our product is mounted to your product.
All the items and parameters in this product specification/datasheet/catalog have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment specified in this specification. You are requested not to use our product deviating from the condition and the environment specified in this specification.
Please note that the only warranty that we provide regarding the products is its conformance to the specifications provided herein. Accordingly, we shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those specified in this specification.

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- Aerospace equipment
- Undersea equipment.
- Power plant control equipment - Medical equipment.
- Transportation equipment (vehicles, trains, ships, elevator, etc.).
- Traffic signal equipment.
- Disaster prevention / crime prevention equipment.
- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.

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Please do not use our products, our technical information and other data provided by us for the purpose of developing of mass-destruction weapons and the purpose of military use.
Moreover, you must comply with "foreign exchange and foreign trade law", the "U.S. export administration regulations", etc.

Please note that we may discontinue the manufacture of our products, due to reasons such as end of supply of materials and/or components from our suppliers.

SAW FILTER FOR TD-SCDMA

Murata part number : SAFEA1G90AA0F00

Customer acknowledges that Murata will, if requested by you, conduct a failure analysis for defect or alleged defect of Products only at the level required for consumer grade Products, and thus such analysis may not always be available or be in accordance with your request (for example, in cases where the defect was caused by components in Products supplied to Murata from a third party).

The product shall not be used in any other application/model than that of claimed to Murata.

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In particular we disclaim liability for damages caused by

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- deviation or lapse in function of engineering sample,
- improper use of engineering samples.

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